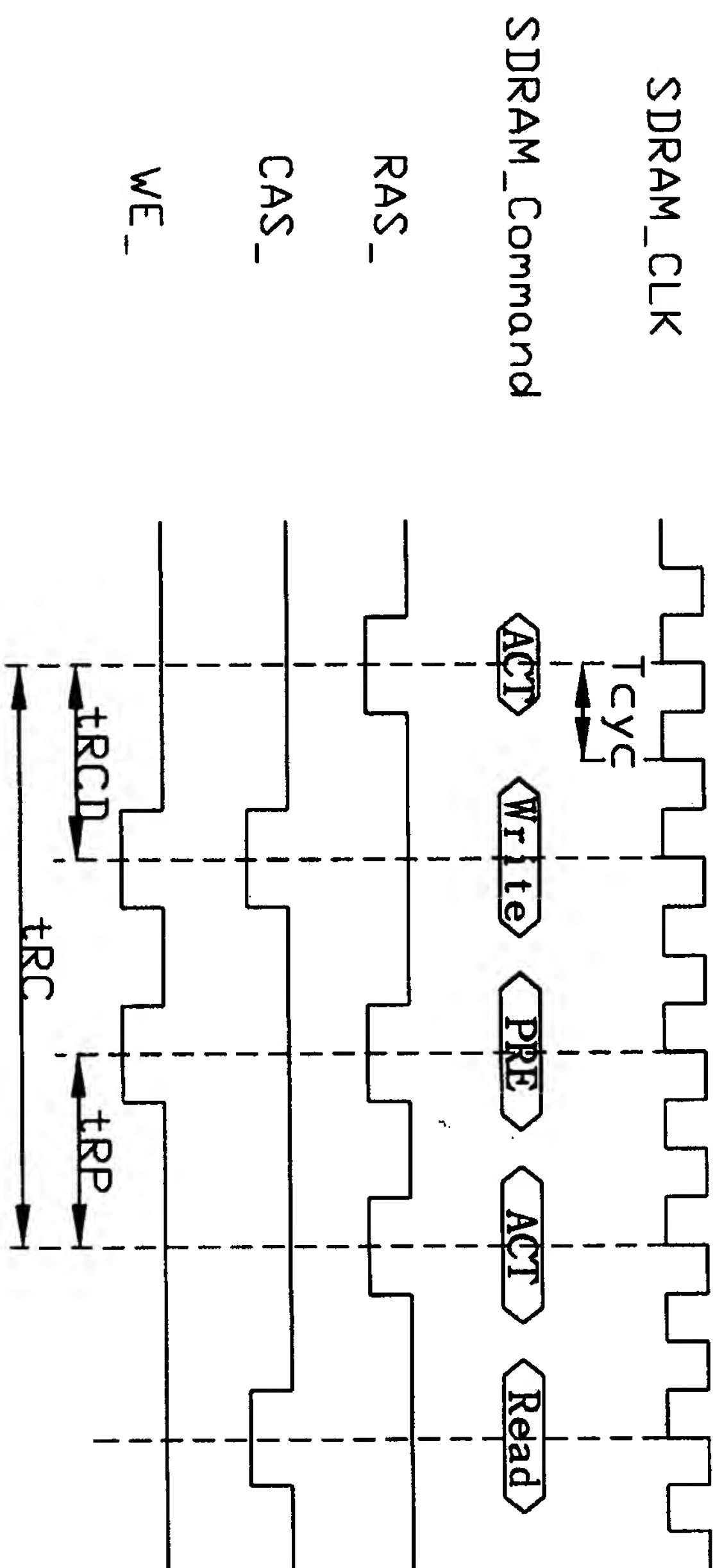


FIG.1(Prior Art)



ACT: Active Command	tRCD: RAS_ to CAS_ delay time	tRCD=2*Tcyc
Write: Write Command	tRCDmin: minimum time for tRCD	tRCDmin=1.4*Tcyc
Read: Read Command	tRP: RAS pre-charge time	tRP=2*Tcyc
PRE: Pre-Charge Command	tRPmin: minimum time for Trp	tRPmin=1.4*Tcyc
	tRC: Command Period	tRC=6*Tcyc
	tRCmin: minimum time for tRC	tRCmin=5*Tcyc

FIG.2(Prior Art)

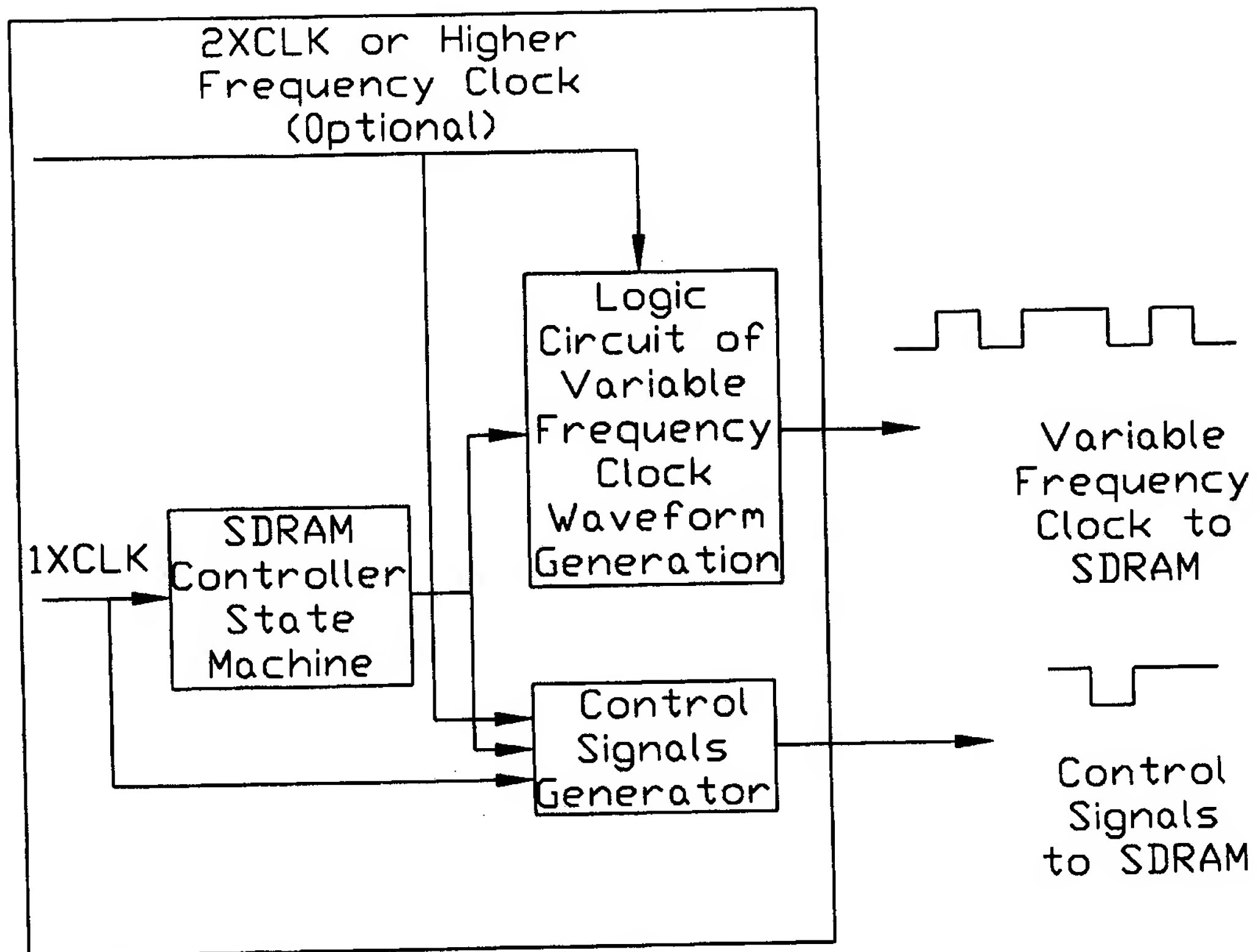
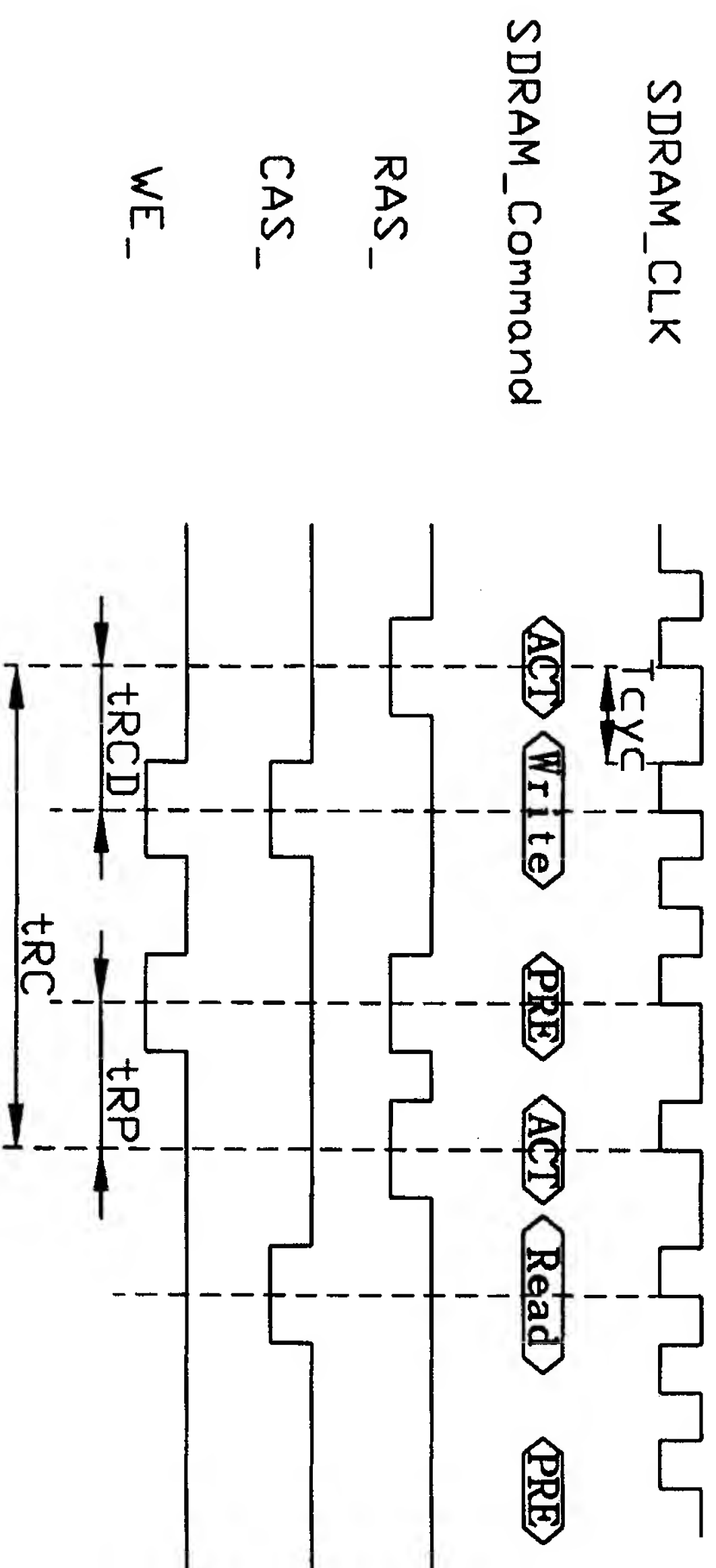


FIG.3



ACT: Active Command
 Write: Write Command
 Read: Read Command
 PRE: Pre-Charge Command

tRCD: RAS_ to CAS_ delay time
 tRCDmin: minimum time for tRCD
 tRP: RAS pre-charge time
 tRPmin: minimum time for tRP
 tRC: Command Period
 tRCmin: minimum time for tRC

tRCD=2*Tcyc
 tRCDmin=1.4*Tcyc
 tRP=2*Tcyc
 tRPmin=1.4*Tcyc
 tRC=6*Tcyc
 tRCmin=5*Tcyc

FIG. 4